Online Appendices

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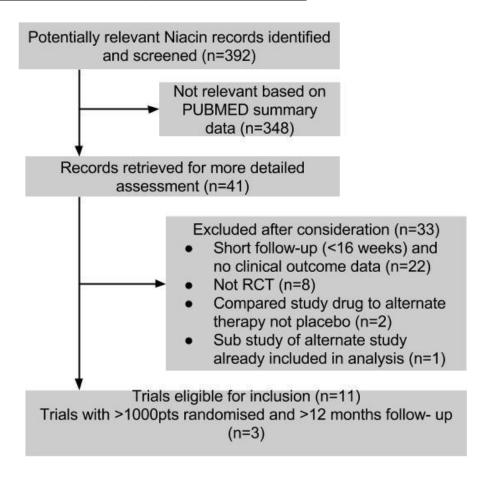
Online Appendix 1 – Search terms used to identify studies

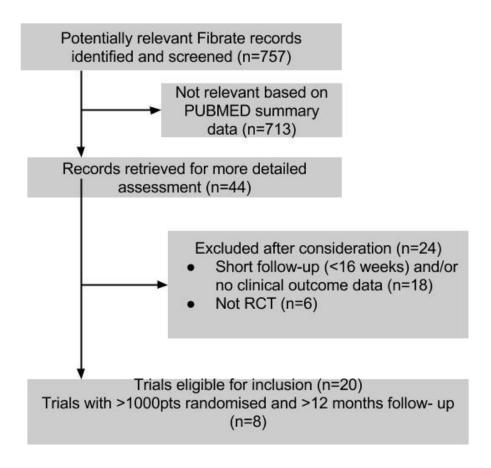
(((HDL OR high-density lipoprotein[Title/Abstract]) AND (niacin OR nicotinic acid OR acipimox[Title/Abstract])) AND (randomized controlled trial OR controlled clinical trial OR randomized OR randomised OR placebo clinical trial OR randomly OR trial[Title/Abstract])) NOT animals[Title/Abstract]

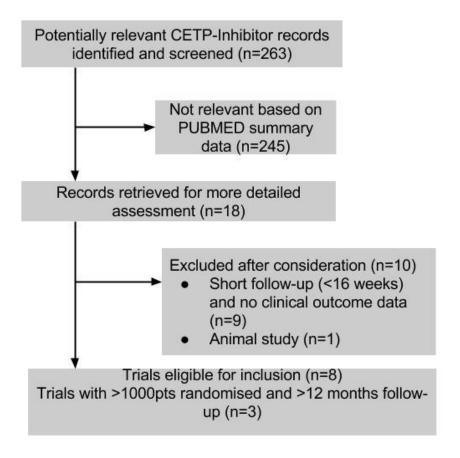
(((HDL OR high-density lipoprotein[Title/Abstract]) AND (cholesteryl ester transfer protein OR torcetrapib OR dalcetrapib OR Evacetrapib OR anacetrapib[Title/Abstract])) AND ((randomized controlled trial OR controlled clinical trial OR randomized OR randomised OR placebo clinical trial OR randomly OR trial[Title/Abstract]))) NOT animals[Title/Abstract]

(((HDL OR high-density lipoprotein[Title/Abstract]) AND (fibrate OR clofibrate OR bezafibrate OR gemfibrozil OR fenofibrate[Title/Abstract])) AND ((randomized controlled trial OR controlled clinical trial OR randomized OR randomised OR placebo clinical trial OR randomly OR trial[Title/Abstract]))) NOT animals[Title/Abstract]

Online Appendix 2 The identification process for eligible studies







Online Appendix 3a: Niacin. Risk of Bias Table

Trial Name	Selection Bias		Performance Bias	Detection Bias	Attrition Bias	Reporting Bias
	Random Sequence Generation	Allocation Concealment	Blinding of participants and Personnel	Blinding of Outcome Assessment	Incomplete Outcome Data	Selective Reporting
AFREGS ⁵	Randomly assigned 1:1 ratio	Assigned by a computer generated randomisation schedule	Matching placebos, Double blind trial, Central pharmacy held the code and the information was not shared with physicians or patients until the completion of the protocol, Unclear who had access to lipid measurements during study protocol, Flushing was almost universally seen in the drug group	Events were assessed for by a standardised questionnaire and an independent blinded end point committee adjudicated all serious events	7% treatment group withdrew from the study and 10% in the placebo group.	Industry funded the study but the sponsor had no role in the collection, analysis or interpretation of the data or in the decision to submit the study for publication. States that reported secondary outcomes will include NSTEMI and STEMI but in results only comments about STEMI data
Aim High ⁶	Randomly assigned 1:1 ratio. Stratified by history of diabetes and clinical site	Assignment was performed with the use of a secure internet connection which provided a randomisation assignment as a numbered drug kit blinded to treatment/placebo	Matching placebos. Double blind trial. Placebo contained a small amount of trial drug with the aim of masking the identity of the blinded treatment to patients and study personnel. Only LDL results were reported to clinical sites personnel.	A clinical events committee reviewed suspected events with supporting documentation that did not reveal the treatment assignments	Trial terminated early due to increased endpoints in the treatment group. 25.4% of treatment group discontinued allocated therapy and 20.1% of placebo group discontinued allocated therapy. 6.1% discontinued in treatment group due to flushing and 2.5% in placebo group because of flushing	Industry funded the study but had no role in the oversight or design of the study or in the analysis or interpretation of the data
Arbiter 2 ⁷	Randomly assigned 1:1 ratio	Randomisation performed with a computer generated sequence of random numbers, participants were assigned a unique study identification that was used by a central research pharmacy to dispense the study medicine	Matching placebo, Double blind trial, Only the research pharmacist was aware of drug assignment. Measurements of lipid levels were made at the start and end of the trial only. 69.2% of treatment group reported flushing and only 12.7% in the placebo group	Unclear how events were adjudicated	10.3% of treatment group discontinued allocated therapy and 11.25% of placebo group discontinued allocated therapy	Single centre study. Sponsorship was utilised from industry but the study was investigator initiated and the trial database and analysis was performed by investigating institution

CDP Niacin 5 year ⁸	Randomly assigned 2:5 (treatment : placebo). Stratified by disease severity	A separate random allocation schedule was utilised by the coordinating centre for each group within each participating clinic	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	A central adjudication panel reviewed all events	10.7% treatment group dropped out of trial and 8% of placebo group dropped out	Multicentre collaborative study. We have reported the 5 year outcome data
CLAS ⁹	Randomly assigned 1:1 ratio, stratified according to age and location	Unclear how randomisation was performed	Matching placebo. Study subjects were blinded to treatment assignment. Subjects and clinic staff were not blinded to on-trial lipid values. Blinding was affected due to the effects of niacin causing flushing (97% of treatment group compared to 6% of placebo group). All patients prior to randomisation were exposed to niacin therapy this meant that were better able to distinguish between placebo and active treatment later	Unclear how events were adjudicated – no comments made	15% of treatment group dropped out of trial and 13% of placebo group dropped out	Single centre study. No reported industry involvement
FATS ¹⁰	Randomly assigned 1:1 ratio, stratified by age, smoking status and lipid pattern	Unclear how randomisation was performed	Matching placebo, Double blind study. Both patient and treating physician were blinded to changes in lipid levels	All clinical decisions were made by physicians who were reportedly independent of the study and were independent of the study and blinded to the patients; treatment assignments and to the changes in their lipid levels	33% of treatment group dropped out of the trial and 13% of placebo group dropped out	Single Centre study. Medication used in trial sponsored by industry. No reported industry involvement in trial design or data analysis
Guyton ¹¹	Randomly assigned 5:2 ratio in favour of treatment group, Stratified by lipid levels.	Unclear how randomisation was performed	Double blind study. Advised to take aspirin to reduce incidence of flushing	Unclear how events were adjudicated	23.3% of treatment group discontinued involvement with the trial and 9.6% of control arm discontinued. 9.9% of treatment group discontinued due to flushing and 0.4% discontinued due to flushing in the placebo group	No mention of industry sponsorship in manuscript

HPS 2 Thrive ¹²	Randomly assigned 1:1 ratio. Stratified by age, gender, history of prior disease, smoking status, lipid levels, blood pressure, ethnic origin and history of prior statin use	Randomised using a minimised randomization program on the clinic IT system	Matching placebo. Laropiprant used to reduce flushing effects of niacin	A central blinded adjudication panel reviewed all events	25.4% of treatment group stopped the study medication and 16.6% stopped study medication in placebo group	Study sponsored by industry but study devised and data analysed independently
Sang ¹³	Randomly assigned 1:1 ratio	Unclear how randomisation was performed	No mention of placebo. Unclear if blinded. Cholesterol levels measured during trial period but unclear who had access to results	Unclear how events were adjudicated	2% withdrew in treatment group and 4% withdrew in control group	Single centre study No mention of industry sponsorship in manuscript
Stockholm ¹⁴	Randomly assigned 1:1. Stratified based on cholesterol, symptoms and age	Unclear how randomisation was performed	Non blinded study, Treatment was prescribed openly to all involved	Unclear how events were adjudicated	27% of treatment group withdrew from study and 12% of control group withdrew from the study	Single centre study. No mention of industry sponsorship in manuscript
UCSF-SCOR ¹⁵	Randomly assigned 1:1 ratio. Stratified by sex and age and patients were grouped into blocks of four	Randomisation was performed by random selection of one of six possible sequences using tables of random numbers	The data manager maintained the randomisation schedule and made patient assignment. Due to SEs of niacin it was not considered possible to blind patients or physicians to treatment group assignment (therefore no placebo)	Unclear how events were adjudicated	8% discontinued therapy in treatment group and 19% of controls withdrew under advice from private physicians so as to intensify lipid therapy	Single centre study. No mention of industry sponsorship in manuscript

Online Appendix 3b: Fibrate. Risk of Bias Table

Trial Name	Selection Bias		Performance Bias	Detection Bias	Attrition Bias	Reporting Bias
	Random Sequence Generation	Allocation Concealment	Blinding of participants and Personnel	Blinding of Outcome Assessment	Incomplete Outcome Data	Selective Reporting
Becait ¹⁶	Randomly assigned 1:1 ratio by a block design	Unclear how randomisation was performed	Matching Placebo. Double blind trial	Unclear how events were adjudicated	11% of treatment group withdrew from study and 13% of placebo group withdrew	Single centre study. Study supported by industry
SENDCAP ¹⁹	Randomly assigned 1:1 ratio	A randomised list was prepared by the statistician in advance so that numbers assigned to each treatment would be approximately equal after every 10 subjects, subjects were allocated the next consecutive number in a double blind fashion	Matching Placebo, Double blind trial. Lipid measurements were concealed from those involved in the study	A safety committee reviewed all adverse events annually	33.3% of treatment group withdrew from the study and 36.1% of placebo group withdrew from the study	Study supported by industry. There was no extractable data from this trial
Leader ¹⁸	Randomly assigned 1:1 ratio. Balanced between active and placebo treatment within each practice or hospital clinic	Unclear how randomisation was performed	Matching Placebo. Double blind trial. Unclear who had access to lipid measurement results during the trial	All possible endpoint episodes notified were documented and assessed independently and without knowledge of trial treatment allocation	47.1% of treatment group withdrew from the study and 51.3% of placebo group withdrew from the study. 5.4% of treatment group withdrew because they started a drug incompatible with trial drug(statin) and 13.9% of placebo withdrew because they started an incompatible drug (statin).	One study sites data was discarded as reported to be of poor quality and unreliable
BIP ¹⁷	Randomly assigned 1:1 ratio	Patients were assigned consecutive randomisation numbers within each recruiting centre	Matching placebo. Double blind trial. Lipids measured at central laboratory during trial	An independent critical event committee whose members were blinded to treatment assignment reviewed end points	9% discontinued assigned drug in the treatment group due to receiving an open label lipid modifying therapy and 15% withdrew for the same reason in the placebo group	The trial reports it was conducted independently of the industry sponsor

Newcastle ²²	Randomly assigned 1:1 ratio	Patients were randomised through means of a randomisation scheme and allocation envelopes prepared by one individual and supervised by the pharmacists of the hospitals taking part in the trial	Matching placebo, Double blind trial. Unclear who had access to lipid measurement results during the trial	Cause of death was determined by the organising secretary while blinded to treatment allocation utilising the information available. Where possible necropsy was arranged. Similarly the organising secretary reviewed the details of all reported MIs	18% of the treatment group withdrew from the study and 11% withdrew from the placebo group	Funded by industry sponsor who also assisted with the analysis of the results
Scottish ²³	Randomly assigned 1:1 ratio	Unclear how randomisation was performed	Matching Placebo. Double blind trial except for those patients on OAC where the doctor knew the treatment allocation due to difficulties in dosing medication	Blinded review of patient details by one observer to determine clinical events	17% withdrew from the treatment group and 16% withdrew from the placebo group.	Independent statistical advice was obtained. There was industry support provided
WHO Clofibrate ²⁵	Randomly assigned 1:1 ratio	Unclear how randomisation was performed	Matching placebo. Double blind trial. Unclear who had access to cholesterol measurements during the trial	A panel of 2 centrally located physicians not concerned with the day-to-day running of the trial reviewed all events that the participating physicians in the centres considered might be due to IHD. Unclear if these individuals were blinded.	67% of treatment group completed 5 years of the trial and 68% of the placebo group completed 5 years of the trial	Medication supplied by industry
Diabetes Intervention Study (Hanefeld) ²¹	Randomly assigned 1:1 ratio	Unclear how randomisation was performed	Matching placebo. Double blind trial. Unclear who had access to blood results for lipid levels	No central adjudication of events. Events were reported from hospital records. Most causes of deaths were confirmed by autopsy.	12% of treatment group did not complete the study and 14% of placebo group did not complete the study. Study only reported fatal stroke outcomes	Independent statistical advice was obtained

CDP Fibrate 5 year ⁸	Randomly assigned 2:5 (treatment : placebo). Stratified by disease severity	A separate random allocation schedule was utilised by the coordinating centre for each group within each participating clinic	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	A central adjudication panel reviewed all events	At 5 years 7.4% treatment group dropped out of trial and 8% of placebo group dropped out	Multicentre collaborative study
Stockholm ¹⁴	Randomly assigned 1:1 ratio. Stratified based on cholesterol, symptoms and age	Unclear how randomisation was performed	Non blinded study, Treatment was prescribed openly to all involved	Unclear how events were adjudicated	27% of treatment group withdrew from study and 12% of control group withdrew from the study	Single centre study. No mention of industry sponsorship in manuscript
Acheson ²⁰	Randomly assigned 1:1 ratio	Patients matched in pairs according to clinical status, duration of disease, cholesterol level, age and sex and then randomised	Matching placebo. Not documented as blinded. The observers had no knowledge of cholesterol levels when patients were reviewed	Unclear how events were adjudicated	8 patients refused to cooperate in follow up and were thus excluded from the trial and 1 patient discontinued clofibrate in the treatment arm	Industry supplied the drugs used
VA Neuro ²⁴	Randomly assigned 1:1 ratio	Unclear how randomisation was performed	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	A central adjudication panel reviewed all mortality and vascular events	26% of treatment group were lost to follow up and 22% of placebo group were lost to follow up. A cohort of patients was excluded immediately after randomisation this was due to concern raised over a particular trial centre.	Medication used in the study were supplied by industry
Accord ²⁶	Randomly assigned in a 2 by 2 factorial design	Randomisation was performed centrally via an online system and used a permuted block randomisation procedure	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	A central blinded adjudication committee reviewed all events	All enrolled patients followed up for a mean duration of 4.7 years for the primary outcome and 5 years for total rates of death. At final visit 77.3% of treatment group were taking assigned medication and 81.3% in the treatment group were taking their assigned medication. 80% of patients in each group remained compliant with statin therapy at the end of the trial. For CHD death included only fatal MI	Drugs were donated by industry who had no role in the design or analysis of the study

Field ²⁸	Randomly assigned 1:1 ratio. Stratified by age, sex and clinical details	Randomisation was completed by a central computer using a dynamic allocation method	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	A central blinded adjudication committee reviewed all events	20% of the treatment group discontinued therapy and 19% of placebo group discontinued therapy	Addition of additional lipid lowering therapy was at the discretion of the treating physician. The industry sponsor of the study had no role in data collection or data analysis
Dais ²⁷	Randomly assigned 1:1 ratio. Stratified by gender, prior coronary intervention and clinical centre	A permuted blocks randomisation procedure was used. The randomisation sequence was generated at the statistical coordinating centre by means of the pseudo random number generating routine in SAS	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	A central blinded adjudication committee reviewed all events	Follow up data was allowed for all subjects. 13 patients could not have a final angiogram as per trial design but that was because they died during the trial period	Supported by industry
VA-HIT ³²	Randomly assigned 1:1 ratio. Stratified by centre	Telephone randomisation via the coordinating centre and used a permuted blocks randomisation procedure.	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	A central blinded adjudication committee reviewed all primary end points	<1% of patients were lost to follow up	Supported by industry
LOCAT ³¹	Randomly assigned 1:1 ratio	Unclear how randomisation was performed	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	Unclear how events were adjudicated	94% of trial participants completed the trial. No data for non-fatal MI included as grouped MI with revascularisation and unable to determine between the two	Supported by sponsorship from industry
HHS ²⁹	Randomly assigned 1:1 ratio	Block design for each clinic, no further details	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	A review committee evaluated the classification of all end points. When the reported end point differed from that of the review committee a four member safety committee reviewed the data	No patients were lost to follow up although only 70% continued to the end in the trial following their assigned treatment. 14.7% of the treatment group discontinued therapy by the end of year one and 12.6% of placebo group discontinued therapy by the end of year one	Supported by sponsorship from industry, statistical analysis was performed at the sponsor. Stroke data reported includes only fatal stroke data

HHS Exclusions ³⁰	Randomly assigned 1:1 ratio. Stratified by age, smoking status and history/evidence of prior MI	Unclear how randomisation was performed	Matching placebo. Double blind. Unclear who had access to cholesterol measurements during the trial	All endpoints were analysed blindly without knowledge of the treatment group, unclear who and when performed this analysis	38.3% of treatment group withdrew from the trial and 31.5% withdrew from the placebo group.	Trial conducted to ensure support of companies providing the study population for another trial
AFREGS⁵	Randomly assigned 1:1 ratio	Assigned by a computer generated randomisation schedule	Matching placebo. Double blind trial. Central pharmacy held the code and the information was not shared with physicians or patients until the completion of the protocol. Unclear who had access to lipid measurements during study protocol. Flushing was almost universally seen in the drug group	Events were assessed for by a standardised questionnaire and an independent blinded end point committee adjudicated all serious events	7% treatment group withdrew from the study and 10% in the placebo group.	Industry funded the study but the sponsor had no role in the collection, analysis or interpretation of the data or in the decision to submit the study for publication. States that reported secondary outcomes will include NSTEMI and STEMI but in results only comments about STEMI data

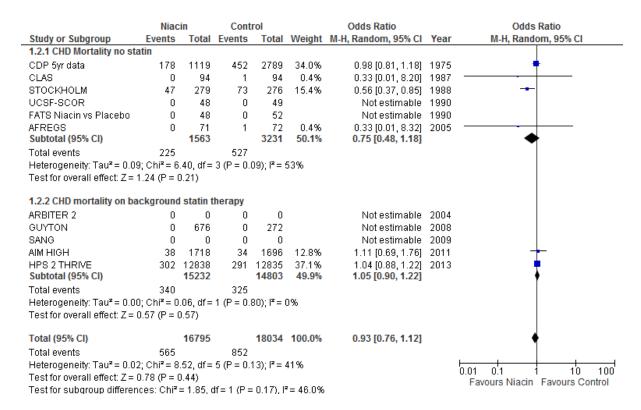
Online Appendix 3c: CETP-I. Risk of Bias Table

Trial Name	Selection Bias		Performance Bias	Detection Bias	Attrition Bias	Reporting Bias
	Random Sequence Generation	Allocation Concealment	Blinding of participants and Personnel	Blinding of Outcome Assessment	Incomplete Outcome Data	Selective Reporting
Dal-Outcomes ³³	Randomly assigned 1:1 ratio, stratified according to country and cardiac biomarker levels	Interactive voice response system/interactive web response system	Identical matching placebo Double blind trial. Interim HDL measurements blinded from investigators and patients	Independent data and safety monitoring board monitored the trial and performed analyses of un-blinded data	Study terminated early due to futility. Study drug discontinued in 21% of treatment group and 19% of placebo group. 1.6% treatment group and 1.3% placebo group were lost to follow-up	Sponsored by industry who helped design the study. Analyses reported performed by two of the authors who are employees of the sponsor, data was confirmed by an academic statistician. Stroke data reported only ischaemic strokes.
Dal-Plaque ³⁴	Randomly assigned 1:1 ratio, stratified by centre	Randomised by a computer generated global randomisation code	Identical matching placebo. Double blind trial. Interim HDL measurements blinded from investigators and patients	Independent clinical endpoint committee adjudicated on safety and clinical endpoints	22% placebo withdrew and 10% treatment group withdrew. 2% treatment group withdrew due to clinical adverse event and 3% placebo group withdrew due to clinical adverse event	Final study protocol designed in collaboration with industry sponsor. Predefined end point extended from 12 to 24 months during trial
Dal-Vessel ³⁵	Randomly assigned 1:1 ratio	Randomised by a computer generated global randomisation code	Identical matching placebo. Double blind trial. Interim HDL measurements blinded from investigators and patients. One patient crossed over groups unclear why	Cardiovascular events were recorded and adjudicated by the clinical events committee	11% treatment group did not complete treatment and 10% of placebo group did not complete treatment. 5% treatment group discontinued trial drug due to clinical adverse event and 4% placebo group discontinued due to clinical adverse events. <1% in both treatment and placebo groups failed to return to follow up	Sponsor participated in discussions regarding the design and conduct of the study with the steering committee.
Define ³⁶	Randomly assigned 1:1 ratio	Unclear how randomisation was performed	Identical matching placebo, Double blind trial. Investigators and sponsor were unaware of the results of the lipid measurements	Cardiovascular events were adjudicated by an external independent adjudication committee whose members were unaware of the patients' group assignments	5.4% of treatment group had a clinical adverse event leading to discontinuation of study drug and 5.7% of placebo group discontinued due to a clinical adverse event. 2.7% of treatment group discontinued study drug due to a drug related adverse event and 2.2% of placebo group discontinued due to drug related adverse event.	Study was sponsored by industry

Illuminate ³⁷	Randomly assigned 1:1 ratio	Used a central randomisation strategy with a block size of four	Matching placebo, Double blind trial. Unclear who had access to Cholesterol measurements during trial	A central committee who were unaware of study-group assignments adjudicated potential outcomes as reported by investigators	13.4% of treatment group discontinued therapy early and 11.0% discontinued therapy early in the placebo group. <1% in both groups lost to follow up. 9.3% of treatment group discontinued therapy due to a non fatal adverse event and 5.7% of placebo group discontinued due to a non fatal adverse event	Trial designed in collaboration with industry sponsor. Data was analysed independently. Original protocol amended at the time of trial termination to include additional primary endpoints to increase the number of events and thus increase the statistical power to reject the null hypothesis.
Illustrate ³⁸	Randomly assigned 1:1 ratio. Stratified according to geographic region and dose of statin Used a permuted block size of 4	Unclear how randomisation was performed	Matching placebo, Double blind trial. Unclear who had access to cholesterol measurements during trial	A committee whose members were unaware of treatment assignment centrally adjudicated major cardiovascular adverse events.	23.8% of treatment group discontinued involvement in the trial and 23.5% discontinued from the placebo group. 11.2% discontinued in the treatment group because of adverse events and 10.7% discontinued in the placebo group	Trial designed in collaboration with the sponsor. Study database was independently analysed but was initially held by the sponsor
Radiance 1 ³⁹	Randomly assigned 1:1 ratio	Unclear how randomisation was performed	Matching placebo, Double blind trial. Patients and study personnel were unaware of study group assignment, laboratory measurements and carotid imaging findings	Investigator reported clinical events were not centrally adjudicated	6% of treatment group and 6% of placebo group did not complete the trial	Trial was designed by academic investigators in collaboration with the industry sponsor. Study database was independently analysed but was initially held by the sponsor
Radiance 2 ⁴⁰	Randomly assigned 1:1 ratio. Blocks were stratified by geographic region and statin dose	Randomised by use of a central scheme with a computer generated permuted block design and a block size of four	Identical matching placebo Double blind trial. Participants and study personnel were unaware of treatment assignment, laboratory measurements and carotid imaging findings	Investigator reported clinical events were not centrally adjudicated	Study terminated early as another torcetrapib trial reported an increase in death in the treatment arm	Trial was designed by academic investigators in collaboration with the industry sponsor

Online Appendix 4: Forest Plots showing the effects of Niacin, Fibrate and CETP-I on the risk of CHD Mortality, Non Fatal MI and Stroke

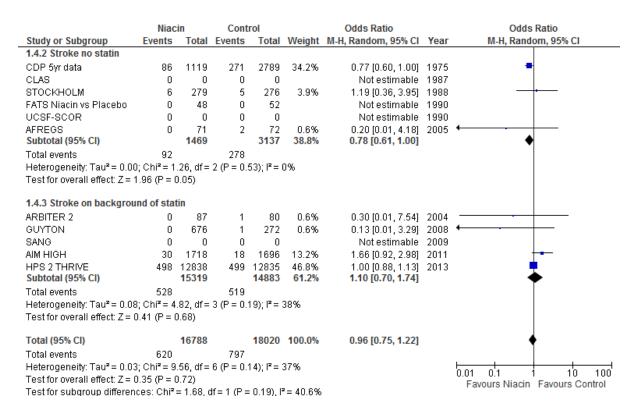
Effect of Niacin on the risk of CHD Mortality



Effect of Niacin on the risk of Non-Fatal MI

	Niac	in	Cont	rol		Odds Ratio		Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	Year	M-H, Random, 95% CI
1.3.1 Non Fatal MI no stati	n							
CDP 5yr data	100	1119	339	2789	26.7%	0.71 [0.56, 0.90]	1975	-
CLAS	1	94	4	94	0.6%	0.24 [0.03, 2.21]	1987	
STOCKHOLM	35	279	50	276	10.9%	0.65 [0.41, 1.04]	1988	
FATS Niacin vs Placebo	0	48	0	52		Not estimable	1990	
UCSF-SCOR	0	48	1	49	0.3%	0.33 [0.01, 8.39]	1990	
AFREGS	0	71	0	72		Not estimable	2005	
Subtotal (95% CI)		1659		3332	38.5%	0.69 [0.56, 0.85]		•
Total events	136		394					
Heterogeneity: Tau² = 0.00	•	•	3 (P = 0.1)	76); I²= I	0%			
Test for overall effect: $Z = 3$	3.52 (P = 0	0.0004)						
4 2 2 Non Fetal IIII on book		4-4:-						
1.3.2 Non Fatal MI on back	_							
ARBITER 2	2	87	2	80	0.8%	0.92 [0.13, 6.67]		
GUYTON	1	676	1	272	0.4%	0.40 [0.03, 6.44]	2008	
SANG	0	52	0	56		Not estimable	2009	L
AIM HIGH	104	1718	93	1696	21.4%	1.11 [0.83, 1.48]		Ī
HPS 2 THRIVE	402	12838 15371	431	12835	39.0%	0.93 [0.81, 1.07]	2013	7
Subtotal (95% CI)	500	153/1	507	14939	61.5%	0.96 [0.85, 1.09]		1
Total events	509	50.46	527		201			
Heterogeneity: Tau ² = 0.00	•		3 (P = 0.)	o/);	J%			
Test for overall effect: Z = 0	J. P = (J.52)						
Total (95% CI)		17030		18271	100.0%	0.85 [0.72, 1.01]		•
Total events	645		921					
Heterogeneity: Tau² = 0.02	; Chi² = 9	.98, df=	7 (P = 0.1)	19); l² = :	30%			0.01 0.1 1 10 100
Test for overall effect: Z = 1	.81 (P = 0	0.07)						Favours NIACIN Favours CONTROL
Test for subgroup differen	ces: Chi²	= 7.24, 0	lf=1 (P=	0.007),	$I^2 = 86.29$	%		TAVOUIS ININOITY PAVOUIS CONTROL

Effect of Niacin on the risk of Stroke



Effect of Fibrate on the risk of CHD Mortality

	Fibra	te	Cont	rol		Odds Ratio		Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	Year	M-H, Random, 95% CI
1.2.1 Bezafibrate								
BECAIT	1	47	0	45	0.1%	2.94 [0.12, 73.96]	1996	
SENDCAP	0	0	0	0		Not estimable	1998	
BIP	95	1548	88	1542	12.2%	1.08 [0.80, 1.46]	2000	+
LEADER	64	783	65	785	9.3%	0.99 [0.69, 1.41]	2002	+
Subtotal (95% CI)		2378		2372	21.6%	1.05 [0.83, 1.32]		•
Total events	160		153					
Heterogeneity: Tau² = 0.			f= 2 (P =	0.76); l²	= 0%			
Test for overall effect: Z =	= 0.39 (P =	: 0.70)						
1.2.2 Clofibrate								
Scottish	34	350	20	367	5.6%	0.00 (0.67.4.60)	1071	
NEWCASTLE	16	244	38 23	253	3.2%	0.93 [0.57, 1.52]		
ACHESON	0	244	23	200	3.270	0.70 [0.36, 1.36] Not estimable		
VA-Neurology Section	11	268	12	264	2.1%	0.90 [0.39, 2.07]		
CDP	156	1103	452	2789	20.4%	0.85 [0.70, 1.04]		-
WHO Clofibrate	36	5331	34	5296	6.0%	1.05 [0.66, 1.68]		<u> </u>
Stockholm	47	279	73	276	7.5%	0.56 [0.37, 0.85]		
Hannefield	1	379	1	382	0.2%	1.01 [0.06, 16.17]		
Subtotal (95% CI)	'	7954		9627	45.0%	0.82 [0.71, 0.96]	1001	•
Total events	301		633					
Heterogeneity: Tau ² = 0.		4.95. dt		0.55): I²	= 0%			
Test for overall effect: Z:			- (,,				
	(-	,						
1.2.3 Gemfibrozil								
HHS	11	2051	12	2030	2.2%	0.91 [0.40, 2.06]	1987	
HHS Exclusions	17	311	8	317	2.0%	2.23 [0.95, 5.25]	1993	
LOCAT	0	197	0	198		Not estimable	1997	
VA-HIT	93	1264	118	1267	13.1%	0.77 [0.58, 1.03]	1999	
AFREGS	0	71	1	72	0.1%	0.33 [0.01, 8.32]	2005	
Subtotal (95% CI)		3894		3884	17.5%	1.01 [0.59, 1.74]		•
Total events	121		139					
Heterogeneity: Tau² = 0.		-	f=3 (P=	0.13); l²	= 47%			
Test for overall effect: Z	= 0.04 (P =	: 0.97)						
1.2.4 Fenofibrate								
DAIS	0	0	0	0		Not estimable	2004	
FIELD	110	4895	93	4900	13.5%	1.19 [0.90, 1.57]		-
ACCORD	12	2765	14	2753	2.4%	0.85 [0.39, 1.85]		
Subtotal (95% CI)	12	7660	14	7653	15.9%	1.14 [0.88, 1.49]	2010	•
Total events	122		107					ſ
Heterogeneity: Tau ² = 0.		0.63 dt		0.43\frac{12}{12}	= 0%			
Test for overall effect: Z:								
Total (DEW CI)		24000		22520	400.08	0.02 [0.04 4.04]		ı
Total (95% CI)	704	21886	4.000	23330	100.0%	0.92 [0.81, 1.04]		1
Total events	704	47.00	1032	- 0.200	12 - 4.004			
Heterogeneity: Tau ² = 0.	-	-	ui = 15 (P	- 0.2b))	17= 10%			0.01 0.1 1 10 100
Test for overall effect: Z:	,		: Af = 2.75	0 = 0.443	12 - 40 C	ov.		Favours Fibrates Favours Control
Test for subgroup differe	ences: Ch	= 5.95	i, ul = 3 (F	· = 0.11)	, 17= 49.6	70		

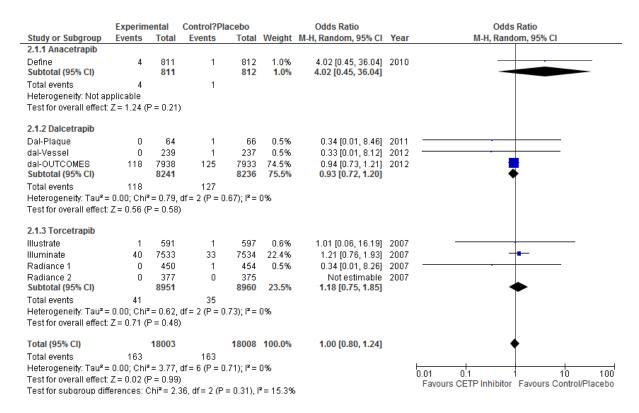
$\underline{\textbf{Effect of Fibrate on the risk of Non-Fatal MI}}$

	Fibra	te	Cont	rol		Odds Ratio		Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	Year	M-H, Random, 95% CI
1.3.1 Bezafibrate								
BECAIT	1	47	3	45	0.1%	0.30 [0.03, 3.04]	1996	
SENDCAP	0	0	0	0		Not estimable	1998	
BIP	150	1548	172	1542	12.3%	0.85 [0.68, 1.08]	2000	-
LEADER	26	783	46	785	2.8%	0.55 [0.34, 0.90]	2002	
Subtotal (95% CI)		2378		2372	15.2%	0.72 [0.50, 1.04]		•
Total events	177		221					
Heterogeneity: Tau² = 0,	•		= 2 (P =	0.21); l²	= 36%			
Test for overall effect: Z	= 1.76 (P =	= 0.08)						
1.3.2 Clofibrate								
	20	244	46	252	2.70	0.60.00.00.4.041	1071	
NEWCASTLE	30 25	244 350	46 41	253 367	2.7% 2.5%	0.63 [0.38, 1.04]		
Scottish ACHESON	23	330	0	307	2.370	0.61 [0.36, 1.03] Not estimable		
VA-Neurology Section	8	268	9	264	0.7%	0.87 [0.33, 2.29]		
CDP	128	1103	339	2789	14.0%	0.95 [0.76, 1.18]		<u> </u>
WHO Clofibrate	131	5331	174	5296	12.4%	0.74 [0.59, 0.93]		<u>.</u>
Stockholm	35	279	50	276	3.0%	0.65 [0.41, 1.04]		
Hannefield	18	379	17	382	1.5%	1.07 [0.54, 2.11]		
Subtotal (95% CI)	10	7954	17	9627	36.7%	0.80 [0.69, 0.92]	1331	•
Total events	375		676			[,]		,
Heterogeneity: Tau ² = 0.		6.21 dt		n 4m) iz	= 3%			
Test for overall effect: Z			٠,١	0.10,,1	0 70			
	J. 1 J.	0.001,						
1.3.3 Gemfibrozil								
HHS	45	2051	71	2030	4.6%	0.62 [0.42, 0.90]	1987	
HHS Exclusions	21	311	17	317	1.5%	1.28 [0.66, 2.47]		+-
LOCAT	0	197	0	198		Not estimable	1997	
VA-HIT	146	1264	184	1267	12.1%	0.77 [0.61, 0.97]	1999	
AFREGS	0	71	0	72		Not estimable	2005	
Subtotal (95% CI)		3697		3686	18.3%	0.77 [0.58, 1.04]		◆
Total events	212		272					
Heterogeneity: Tau ^z = 0.	.03; Chi²=	3.52, dt	= 2 (P =	0.17); l²	= 43%			
Test for overall effect: Z	= 1.72 (P =	= 0.09)						
4.2.4.5								
1.3.4 Fenofibrate			4.0			0.7510.04.4.00		
DAIS	9	207	12	211	0.9%	0.75 [0.31, 1.83]		
FIELD	158	4895	207	4900	14.7%	0.76 [0.61, 0.93]		1
ACCORD Subtotal (95% CI)	173	2765 7867	186	2753 7864	14.3% 29.8%	0.92 [0.74, 1.14] 0.83 [0.72, 0.96]	2010	Ā
	240	1001	405	7004	29.070	0.03 [0.72, 0.90]		*
Total events	340	1 70 de		0.40\-18	- 000			
Heterogeneity: Tau² = 0. Test for overall effect: Z			– 2 (F =	0.43), [- 070			
restion overall effect. Z	– 2.40 (F -	- 0.01)						
Total (95% CI)		21896		23549	100.0%	0.80 [0.74, 0.87]		•
Total events	1104		1574					
Heterogeneity: Tau ^z = 0.	.00; Chi²=	15.17,	df = 15 (P	= 0.44);	I ² = 1%			0.01 0.1 1 10 100
Test for overall effect: Z	= 5.38 (P <	< 0.0000	11)					0.01 0.1 1 10 100 Favours Fibrate Favours Control
Test for subgroup differ	ences: Ch	$i^2 = 0.63$, df = 3 (F	9 = 0.89)	, I² = 0%			. c.ouro i ibrato i avouro control

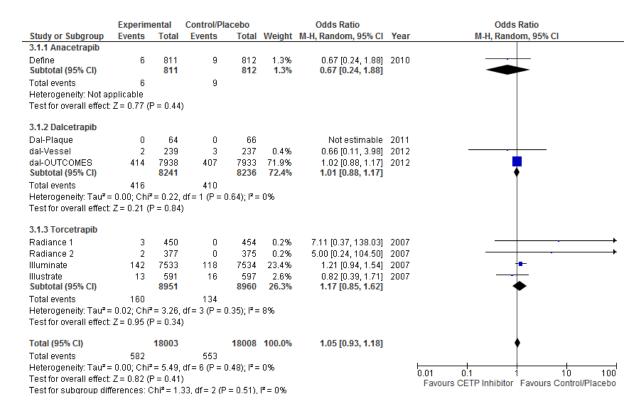
Effect of Fibrate on the risk of Stroke

	Fibra	te	Cont	rol		Odds Ratio		Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	Year	M-H, Random, 95% CI
1.4.1 Bezafibrate								
BECAIT	0	0	0	0		Not estimable	1996	
SENDCAP	0	0	0	0		Not estimable	1998	
BIP	72	1548	77	1542	11.9%	0.93 [0.67, 1.29]		+
LEADER	60	783	49	785	8.5%	1.25 [0.84, 1.84]		 - -
Subtotal (95% CI)		2331		2327	20.4%	1.05 [0.79, 1.40]		•
Total events	132		126					
Heterogeneity: Tau ² = 0	.01: Chi ^z =	1.28. dt	=1 (P=	0.26); l²	= 22%			
Test for overall effect: Z				/				
	,	,						
1.4.2 Clofibrate								
Scottish	0	0	0	0		Not estimable	1971	
NEWCASTLE	0	0	0	0		Not estimable	1971	
ACHESON	31	47	29	48	1.9%	1.27 [0.55, 2.93]		
VA-Neurology Section	37	268	23	264	4.3%	1.68 [0.97, 2.91]		
CDP	117	1103	271	2789	24.3%	1.10 [0.88, 1.39]		.
WHO Clofibrate	18	5331	13	5296	2.6%	1.38 [0.67, 2.81]		
Stockholm	6	279	5	276	0.9%	1.19 [0.36, 3.95]		
Hannefield	1	379	1	382	0.2%	1.01 [0.06, 16.17]		
Subtotal (95% CI)		7407		9055	34.1%	1.19 [0.98, 1.45]		•
Total events	210		342					ľ
Heterogeneity: Tau ² = 0		2.12 dt		0.83): [2	= 0%			
Test for overall effect: Z			٠, ٠	0.00,, 1	0.70			
restror overall effect. Z	- 1.11 (1 -	- 0.00,						
1.4.3 Fenofibrate								
DAIS	0	0	0	0		Not estimable	2001	
FIELD	158	4895	175	4900	26.5%	0.90 [0.72, 1.12]		+
ACCORD	51	2765	48	2753	8.2%	1.06 [0.71, 1.58]		+
Subtotal (95% CI)		7660		7653	34.7%	0.94 [0.77, 1.13]		•
Total events	209		223]
Heterogeneity: Tau ² = 0		0.49. dt	=1 (P=	0.48); l²	= 0%			
Test for overall effect: Z								
	,	,						
1.4.4 Gemfibrozil								
HHS	1	2051	3	2030	0.3%	0.33 [0.03, 3.17]	1987	
HHS Exclusions	0	0	0	0		Not estimable	1993	
LOCAT	0	0	0	0		Not estimable		
VA-HIT	58	1264	76	1267	10.5%	0.75 [0.53, 1.07]	1999	
AFREGS	0	71	2	72	0.1%	0.20 [0.01, 4.18]		
Subtotal (95% CI)		3386		3369	10.9%	0.73 [0.51, 1.03]		•
Total events	59		81					
Heterogeneity: Tau ² = 0		1,21, dt		0.55): J ²	= 0%			
Test for overall effect: Z			- 0	//				
Total (95% CI)		20784		22404	100.0%	1.01 [0.90, 1.13]		
	640	20704	772	22404	100.0%	1.01 [0.30, 1.13]		Ţ
Total events Heterogeneity: Tau² = 0	610	1010		- 0.445	12 - 10/			
Test for overall effect: Z			ar = 12 (P	- 0.44)	1 - 170			0.01 0.1 1 10 100
Test for overall ellect. Z	•		df = 2.45) = 0 07º	12 - 57 4	04		Favours Fibrates Favours Control
restion subdicab diller	ences, on	1 = 7.00	, ui = 3 (F	0.07)	1, 11= 57.1	70		

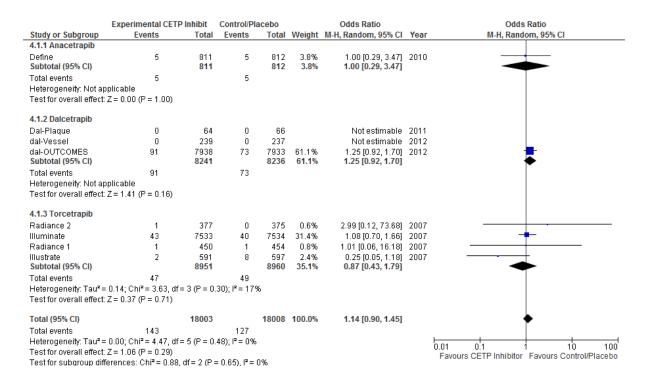
Effect of CETP-I on the risk of CHD Mortality



Effect of CETP-I on the risk of Non-Fatal MI



Effect of CETP-I on the risk of Stroke



Online Appendix 5: Selected Sensitivity Analyses

Requested by reviewers

Niacin trials excluding HPS 2 Thrive

All-Cause Mortality	0.97 (0.83 to 1.1.3)	p=0.69
CHD Mortality	0.85 (0.62 to 1.16)	p=0.30
Non-fatal MI	0.80 (0.61 to 1.03)	p=0.09
Stroke	0.94 (0.56 to 1.58)	p=0.82

<u>Sensitivity analysis for trials where Fibrate and Niacin where used in combination against control:</u>

Niacin:

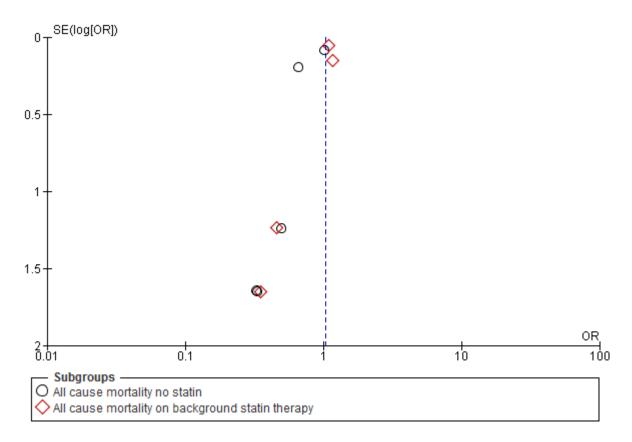
All-cause mortality including AFREGS and Stockholm OR 1.03 (95% CI 0.92 to 1.15) p=0.59 All-cause mortality excluding AFREGS and Stockholm OR 1.08 (95% CI 0.99 to 1.17) p= 0.09 CHD mortality including AFREGS and Stockholm OR 0.93 (95% CI 0.76 to 1.12) p=0.44 CHD mortality excluding AFREGS and Stockholm OR 1.02 (95% CI 0.90 to 1.15) p= 0.79 Non-fatal MI including AFREGS and Stockholm OR 0.85 (95% CI 0.72 to 1.01) p=0.07 Non-fatal MI excluding AFREGS and Stockholm OR 0.88 (95% CI 0.74 to 1.05) p=0.16 Stroke including AFREGS and Stockholm OR 0.96 (95% CI 0.75 to 1.22) p=0.72 Stroke excluding AFREGS and Stockholm OR 0.96 (95% CI 0.73 to 1.27) p=0.78

Fibrate:

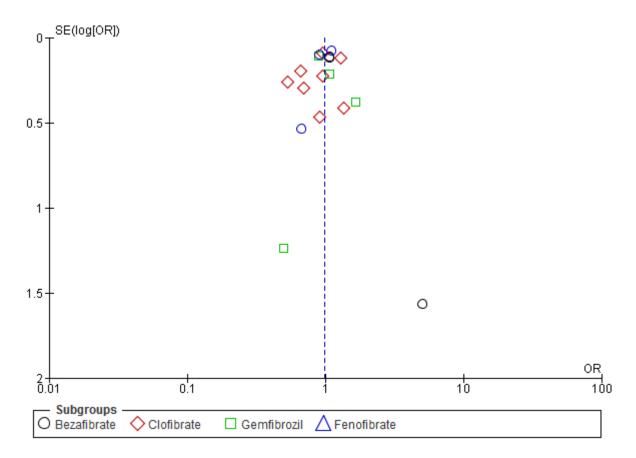
All-cause mortality including AFREGS and Stockholm OR 0.98 (95% CI 0.89 to 1.08) p=0.66 All-cause mortality excluding AFREGS and Stockholm OR 1.00 (95% CI 0.91 to 1.10) p= 0.97 CHD mortality including AFREGS and Stockholm OR 0.92 (95% CI 0.81 to 1.04) p=0.19 CHD mortality excluding AFREGS and Stockholm OR 0.95 (95% CI 0.85 to 1.06) p= 0.34 Non-fatal MI including AFREGS and Stockholm OR 0.80 (95% CI 0.74 to 0.87) p <0.00001 Non-fatal MI excluding AFREGS and Stockholm OR 0.80 (95% CI 0.74 to 0.87) p <0.00001 Stroke including AFREGS and Stockholm OR 1.01 (95% CI 0.90 to 1.13) p= 0.84 Stroke excluding AFREGS and Stockholm OR 0.96 (95% CI 0.90 to 1.15) p=0.78

Online Appendix 6: Funnel Plots

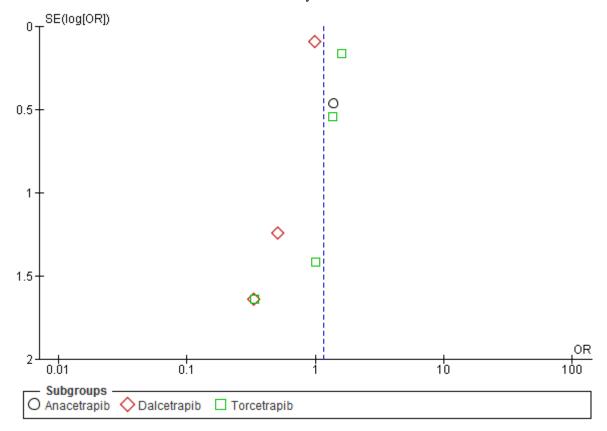
Niacin Funnel Plots for All-Cause Mortality



Fibrate Funnel Plot for All-Cause Mortality



CETP Inhibitor Funnel Plot for All-Cause Mortality



Online Appendix 7: Adverse Event Forest Plots

Niacin

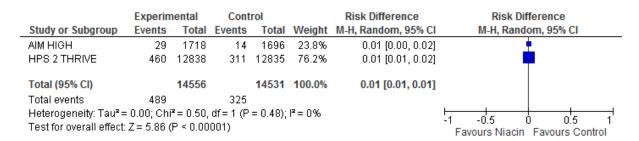
Adverse Liver Events

	Experimental Control			Risk Difference	Risk Difference		
Study or Subgroup	Events Total Events To		Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI	
AIM HIGH	5	1718	5	1696	38.9%	-0.00 [-0.00, 0.00]	•
CLAS	3	94	0	94	0.9%	0.03 [-0.01, 0.07]	 -
HPS 2 THRIVE	39	12838	39	12835	54.8%	-0.00 [-0.00, 0.00]	
SANG	1	52	0	56	0.6%	0.02 [-0.03, 0.07]	+
STOCKHOLM	5	279	0	276	4.8%	0.02 [0.00, 0.03]	<u> </u>
Total (95% CI)		14981		14957	100.0%	0.00 [-0.00, 0.01]	
Total events	53		44				
Heterogeneity: Tau² =	0.00; Chi	² = 7.67,	df = 4 (P	= 0.10);	l ² = 48%		-1 -0.5 0 0.5 1
Test for overall effect:	Z = 0.63 (P = 0.53)				Favours Niacin Favours Control

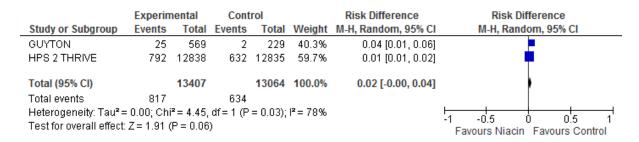
Adverse Skin Events

	Experimental		Control		Risk Difference		Risk Difference
Study or Subgroup	Events Total		Events Total		Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
AIM HIGH	104	1718	43	1696	30.3%	0.04 [0.02, 0.05]	
GUYTON	66	670	1	272	24.1%	0.09 [0.07, 0.12]	-
HPS 2 THRIVE	693 1	2838	154	12835	34.1%	0.04 [0.04, 0.05]	
SANG	1	52	0	56	11.5%	0.02 [-0.03, 0.07]	
Total (95% CI)	1	5278		14859	100.0%	0.05 [0.03, 0.07]	•
Total events	864		198				
Heterogeneity: Tau² =	: 0.00; Chi ^z =	20.74,	df = 3 (F	P = 0.000	-02 -01 0 01 02		
Test for overall effect:	Z= 4.64 (P <	Favours Niacin Favours Control					

Adverse Diabetic Events



New Diabetes Mellitus Diagnosis Events



Adverse Gastro-intestinal Events

	Experin	nental	ntal Control			Risk Difference	Risk Difference	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI	
AIM HIGH	26	1718	12	1696	33.2%	0.01 [0.00, 0.02]	•	
CLAS	4	94	2	94	0.7%	0.02 [-0.03, 0.07]	+	
HPS 2 THRIVE	620	12838	491	12835	66.1%	0.01 [0.01, 0.02]	•	
Total (95% CI)		14650		14625	100.0%	0.01 [0.01, 0.01]		
Total events	650		505					
Heterogeneity: Tau² =	: 0.00; Chi	$^{2} = 0.46$	df = 2 (P	= 0.79);	l² = 0%		-1 -0.5 0 0.5	⊣
Test for overall effect:	Z = 4.58 ((P < 0.00	001)			Favours Niacin Favours Control		

Adverse Musculoskeletal Events

	Experimental		Control			Risk Difference	Risk Difference
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
GUYTON	4	605	1	260	30.7%	0.00 [-0.01, 0.01]	•
HPS 2 THRIVE	481	12838	385	12835	68.1%	0.01 [0.00, 0.01]	
SANG	0	52	2	56	1.2%	-0.04 [-0.09, 0.02]	+
Total (95% CI)		13495		13151	100.0%	0.01 [-0.00, 0.01]	
Total events	485		388				
Heterogeneity: Tau² =	0.00; Chi	² = 2.79,	df = 2 (P	= 0.25);	l²= 28%		-1 -0.5 0 0.5 1
Test for overall effect:	Z = 1.62 (P = 0.11)				Favours Niacin Favours Control

Infection Events

	Experimental		Control			Risk Difference	Risk Difference	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95%	CI
HPS 2 THRIVE	1031	12838	853	12835	100.0%	0.01 [0.01, 0.02]	-	
Total (95% CI)		12838		12835	100.0%	0.01 [0.01, 0.02])	
Total events	1031		853					
Heterogeneity: Not ap	plicable						1 -0.5 0 0	15 1
Test for overall effect:	Z = 4.26 (P < 0.00	01)				Favours Niacin Favours	

Adverse Bleeding Events

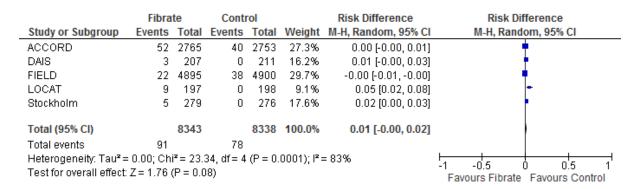


Fibrate

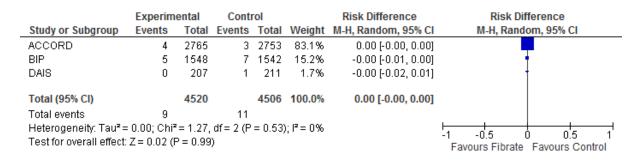
New Cancer Events

	Experim	ental	Control			Risk Difference	Risk Difference
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
BIP	85	1548	91	1542	2.7%	-0.00 [-0.02, 0.01]	+
CDP	10	1103	24	2789	16.9%	0.00 [-0.01, 0.01]	•
DAIS	5	207	7	211	0.7%	-0.01 [-0.04, 0.02]	+
FIELD	393	4895	373	4900	6.4%	0.00 [-0.01, 0.01]	†
HHS	31	2051	26	2030	14.0%	0.00 [-0.00, 0.01]	<u>†</u>
HHS Exclusions	5	311	4	317	2.1%	0.00 [-0.02, 0.02]	†
LOCAT	3	197	7	198	0.8%	-0.02 [-0.05, 0.01]	+
Stockholm	10	279	6	276	0.9%	0.01 [-0.01, 0.04]	t
VA-HIT	125	1264	138	1267	1.3%	-0.01 [-0.03, 0.01]	†
WHO Clofibrate	58	5331	42	5296	54.1%	0.00 [-0.00, 0.01]	"
Total (95% CI)		17186		18826	100.0%	0.00 [-0.00, 0.00]	
Total events	725		718				
Heterogeneity: Tau ² =	0.00; Chi ²	= 5.66,	df = 9 (P	= 0.77);	$I^2 = 0\%$		1 1 1 1 1 1
Test for overall effect:	Z= 1.46 (I	P = 0.14)				-1 -0.5 0 0.5 1 Favours Fibrate Favours Control

Adverse hepato-bilary events



Myopathy Events



Pancreatitis Events

	Experimental		Control		Risk Difference		Risk Difference	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI	
FIELD	40	4895	23	4900	100.0%	0.00 [0.00, 0.01]		
Total (95% CI)		4895		4900	100.0%	0.00 [0.00, 0.01]		
Total events	40		23					
Heterogeneity: Not ap	plicable						-1 -0.5 0 0.5	_
Test for overall effect:	Z = 2.15 (F	P = 0.03)				Favours Fibrate Favours Contr	rol

Pulmonary Emboli Events

	Experim	ental	Conti	rol		Risk Difference		Risk Dif	ference	•	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		M-H, Rando	om, 95%	6 CI	
CDP	26	1103	37	2789	11.6%	0.01 [0.00, 0.02]					
FIELD	53	4895	32	4900	84.2%	0.00 [0.00, 0.01]					
VA-Neurology Section	4	268	1	264	4.3%	0.01 [-0.01, 0.03]					
Total (95% CI)		6266		7953	100.0%	0.01 [0.00, 0.01]					
Total events	83		70								
Heterogeneity: Tau² = 0	.00; Chi²=	1.92, df	= 2 (P =	0.38); P	²= 0%		1	0.5		0.5	_
Test for overall effect: Z	= 3.07 (P =	0.002)				F		o.o perimental]	Favour		1

CETP Inhibitor

Reported Hypertension

	CETP Int	nibitor	Cont	rol		Risk Difference	Risk Difference
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
dal-OUTCOMES	578	7912	513	7907	23.2%	0.01 [0.00, 0.02]	•
Dal-Plaque	18	63	20	65	10.3%	-0.02 [-0.18, 0.14]	-
Illuminate	1411	7533	564	7534	23.1%	0.11 [0.10, 0.12]	
Illustrate	140	591	63	597	21.3%	0.13 [0.09, 0.17]	•
Radiance 1	38	423	16	427	22.1%	0.05 [0.02, 0.09]	•
Total (95% CI)		16522		16530	100.0%	0.07 [-0.00, 0.13]	•
Total events	2185		1176				
Heterogeneity: Tau² =	0.01; Chi ^a	2 = 274.3	8, df = 4 ((P < 0.00	1001); l² =	99%	-1 -0.5 0 0.5 1
Test for overall effect:	Z = 1.89 (1	P = 0.06					Favours CETP-I Favours Control

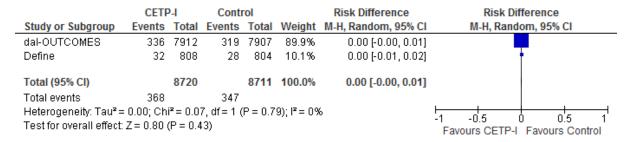
Rise in systolic BP more than 15mmHg

	CETF		Conti			Risk Difference	Risk Difference
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Define	354	802	377	797	18.2%	-0.03 [-0.08, 0.02]	+
Illustrate	53	591	19	597	26.1%	0.06 [0.03, 0.08]	•
Radiance 1	9	423	4	427	29.6%	0.01 [-0.00, 0.03]	•
Radiance 2	20	377	8	375	26.1%	0.03 [0.00, 0.06]	•
Total (95% CI)		2193		2196	100.0%	0.02 [-0.01, 0.05]	•
Total events	436		408				
Heterogeneity: Tau² =	= 0.00; Ch	i² = 16.3	27, df = 3	(P = 0.	0010); l² :	= 82%	-1 -0.5 0 0.5
Test for overall effect	Z=1.31	(P = 0.1)	9)				Favours CETP-I Favours Control

Diarrhoea Adverse Events

	CETF	P-I	Conti	rol		Risk Difference	Risk Difference
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
dal-OUTCOMES	541	7912	342	7907	97.8%	0.03 [0.02, 0.03]	
Dal-Plaque	5	63	4	65	0.6%	0.02 [-0.07, 0.11]	
dal-Vessel	27	236	26	236	1.5%	0.00 [-0.05, 0.06]	+
Total (95% CI)		8211		8208	100.0%	0.02 [0.02, 0.03]	1
Total events	573		372				
Heterogeneity: Tau ² =	= 0.00; Ch	$i^2 = 0.5$	4, df = 2	P = 0.7	6); I ² = 09	6	105 005 005
Test for overall effect: $Z = 6.87$ (P < 0.00001)							-0.5 -0.25 0 0.25 0.5 Favours CETP-I Favours Control

Myalgia Events



Reported Infection Events

	CETF	P-I	Cont	rol		Risk Difference	Risk Difference
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
dal-OUTCOMES	270	7912	288	7907	41.7%	-0.00 [-0.01, 0.00]	•
Illuminate	182	7533	177	7534	58.0%	0.00 [-0.00, 0.01]	
Radiance 1	227	423	215	427	0.3%	0.03 [-0.03, 0.10]	+
Total (95% CI)		15868		15868	100.0%	-0.00 [-0.00, 0.00]	
Total events	679		680				
Heterogeneity: Tau² =	0.00; Chř	² = 1.64,	df = 2 (P	= 0.44);	$I^2 = 0\%$		-1 -0.5 0 0.5 1
Test for overall effect:	Z = 0.25 (Favours CETP-I Favours Control				

Adverse hepato-bilary events

	CETP-I		Control		Risk Difference		Risk Difference	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI	
Define	1	800	8	797	41.9%	-0.01 [-0.02, -0.00]	•	
Illustrate	8	591	5	597	32.1%	0.01 [-0.01, 0.02]	•	
Radiance 1	2	423	9	427	26.0%	-0.02 [-0.03, -0.00]	•	
Total (95% CI)		1814		1821	100.0%	-0.01 [-0.02, 0.00]		
Total events	11		22					
Heterogeneity: Tau ² = 0.00; Chi ² = 5.77, df = 2 (P = 0.06); I ² = 65%							-1 -0.5 0 0.5 1	
Test for overall effect: $Z = 1.12$ (P = 0.26)							-1 -0.5 U 0.5 1 Favours CETP-I Favours Control	